

FIG. 3

APPROVED	O.G. FIG.	
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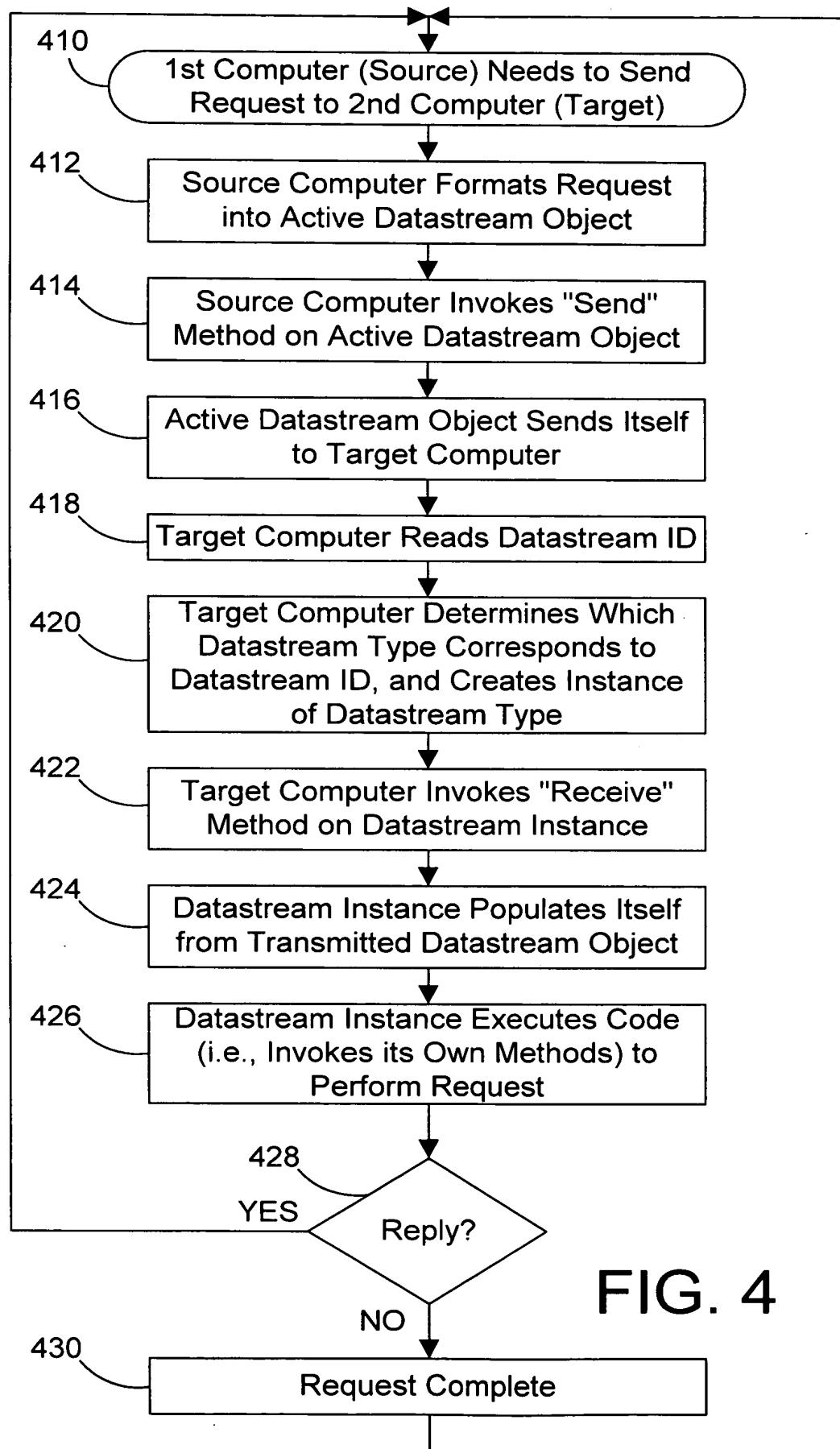
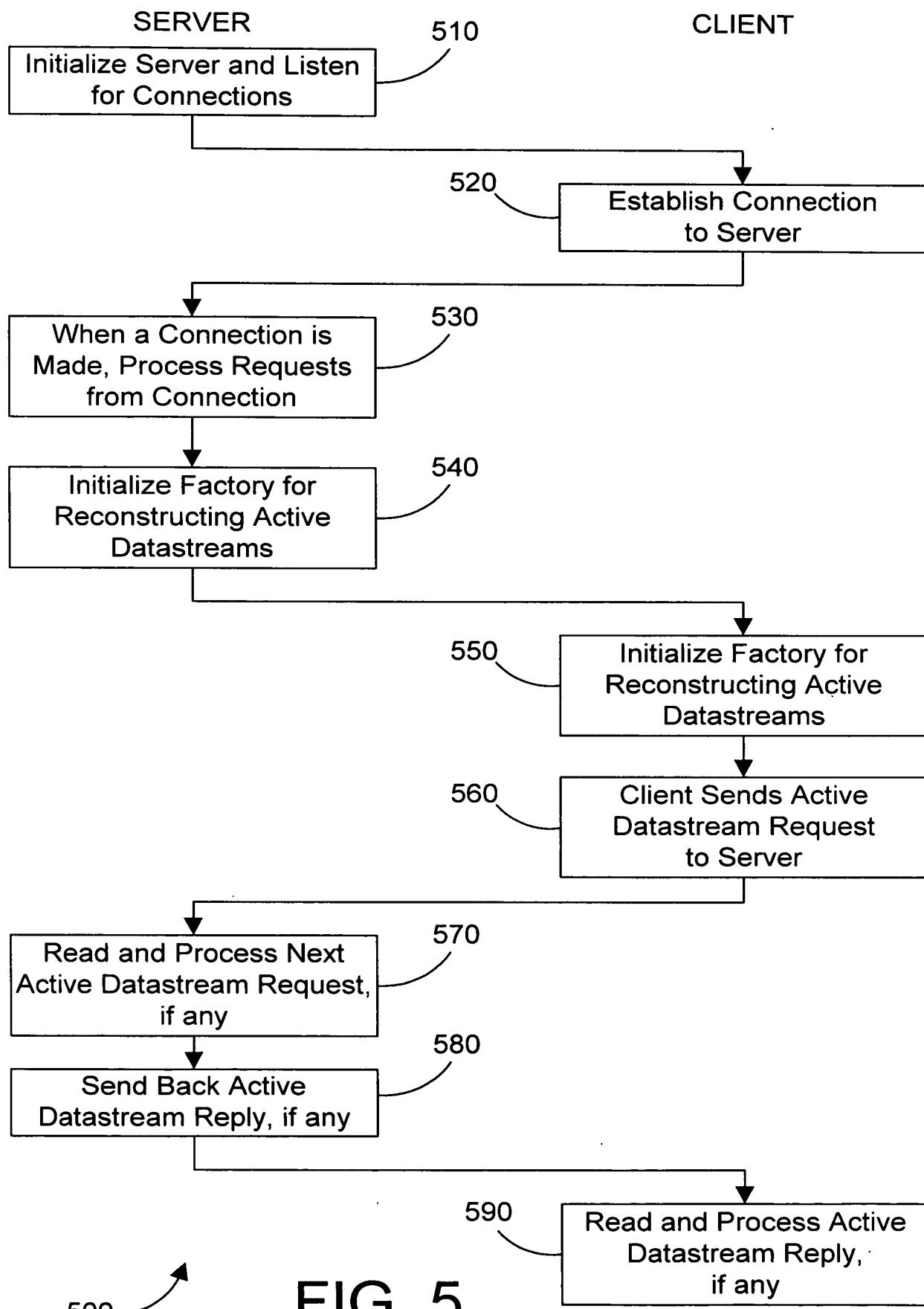


FIG. 4



APPROVED	O.G. FIG.	
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```

interface ActiveDatastream
{
    // Performs any preprocessing and sends the datastream to an
    // output stream (to the target)
610 — public abstract void send (OutputStream output);

    // Receives the datastream from an input stream (from the source)
    // and performs any necessary processing on the target. This can
    // optionally return an active reply datastream object.
620 — public abstract ActiveDatastream receive (InputStream input);
}

```

FIG. 6

```

interface ActiveDatastreamFactory
{
710 —public abstract ActiveDatastream
    720 —getNextDatastream(InputStream input);
}

```

FIG. 7

```

// Sample Server: 510
ServerSocket serverSocket = new ServerSocket (port); — 805
while (true) {
    530 <———————
    Socket socket = serverSocket.accept(); — 810
    InputStream input = new BufferedInputStream (socket.getInputStream()); — 820
    OutputStream output = new BufferedOutputStream (socket.getOutputStream()); — 830
540 — ActiveDataStreamFactory factory = new SomeActiveDataStreamFactory(); — 835

```

```

        while (true) {
            570 <———————
            ActiveDataStream request = factory.getNextDataStream(input); — 840
            if (request == null) — 850
                break; — 860
            ActiveDataStream reply = request.receive (input); — 870
            580 <———————
            if (reply != null) — 880
                reply.send (output); — 890
        }
}

```

FIG. 8

APPROVED	O.G. FIG.	
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```
// Sample Client:  
}  
520  Socket socket = new Socket (ServerName, serverPort); - 910  920  
      |  
      OutputStream output = new BufferedOutputStream (socket_.getOutputStream());  
      |  
      InputStream input = new BufferedInputStream (socket_.getInputStream()); - 930  
  
550 — ActiveDataStreamFactory factory = new SomeActiveDataStreamFactory(); - 940  
  
560  ActiveDataStream request = new SomeRequest(); - 950  
      |  
      request.send (output); - 960  
  
590  ActiveDataStream reply = factory.getNextDatastream (input); - 970  
      |  
      if (reply != null) - 980  
          |  
          reply.send (output); - 990  
      }  
  }
```

FIG. 9